

1 **BOLLARDS**
2 **April 4, 2005**

3 **Description**

4 This work shall consist of furnishing and installing steel bollards in accordance with the
5 Plans, Standard Plans, and these Specifications, at the locations shown in the Plans or as
6 staked by the Engineer.

7
8 **Materials**

9 ***Post***

10 Bollard posts shall be Schedule 80 steel pipe and post sleeves shall be Schedule 40
11 steel pipe.

12
13 ***Hardware***

14 All hardware shall be steel, conforming to the size and thickness shown in the Standard
15 Plans. The welding shall not interfere with the fit of the lid in the cover plate.

16
17 All steel parts shall be hot-dip galvanized after fabrication in accordance with ASTM A
18 123.

19
20 ***Reflective Tape***

21 Reflective tape shall be one of the following or an approved equal:

22
23 Scotchlite High Intensity Grade Series 2870
24 Reflexite AP-1000
25 Scotchlite Diamond Grade LDP Series 3970
26 T-6500 High Intensity (Type IV)

27
28 ***Concrete***

29 Footings shall be constructed using concrete Class 3000.

30
31 **Construction Requirements**

32 Bollards shall be constructed in accordance with the Standard Plans.

33
34 Bollards shall not vary more than 1/2 inch in 30 inches from a vertical plane.

35
36 Bollard posts, and the exposed parts of the base assembly shall be painted with one coat of
37 paint conforming to the requirements of Section 9-34.2(1).

38
39 **Measurement**

40 Measurement for bollards will be by the unit for each type of bollard furnished and installed.

41
42 **Payment**

43 Payment will be made in accordance with Section 1-04.1, for the following bid items:

44
45 "Bollard Type ____", per each.